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Tel 314-674-1000

June 21, 2000

Kevin Turner-Environmental Scientist, OSC
U. S. Environmental Protection Agency
8588 Rt. 148
Marion, IL 62959

**Re: Sauget Sites Area I - May 31, 2000 Unilateral Administrative Order
Dead Creek Sediments Removal / Containment**
• **Notification of Contractors & Contractor Qualifications**

Mr. Turner,

Pursuant to Section V. **ORDER**, 2. Designation of Contractor, Project Coordinator, and On-Scene Coordinator, of the Sauget Sites Area I, May 31, 2000 Unilateral Administrative Order ("UAO") for Dead Creek Sediments Removal / Containment, listed below are contractor names, project work areas, project directors and qualifications of the directors, for your review and approval. Pursuant to the UAO, these contractors are, "...other contractors or subcontractors retained to perform work under this Order".

<u>Contractor</u>	<u>Work Area</u>	<u>Project Director</u>
URS Greiner Woodward Clyde	Containment Cell Design & Construction	Gary Wantland
Maverick Construction Management Services	Sediments Dewatering & Removal	John Fiore

Qualifications of Gary Wantland

Gary Wantland, P.E., of URS Greiner Woodward Clyde's Tampa, Florida office, will be responsible for design of the RCRA minimum technology, TSCA-compliant containment cell. Mr. Wantland, has designed double-lined containment cells for numerous waste management facilities located across the country. Mr. Wantland and his design team

have designed a 50,000 cy, double-lined, TSCA-compliant cell to contain PCB-containing sludge from a deep well feed pond at Solutia's Pensacola, Florida facility. URS Greiner Woodward Clyde will also be responsible for cell construction management. A detailed resume' for Mr. Wantland is attached.

Qualifications of John Fiore

John Fiore, of Maverick Construction Management Services, will be responsible for dewatering sediments in Creek Segments B, C, D and E and Site M and transport of the sediments to the containment cell. Mr. Fiore has many years experience in handling impacted sediments and soils at remediation sites. You are familiar with Mr. Fiore's work in connection with USEPA's June 28, 1999 UAO dealing with the Dead Creek Culverts. Mr. Fiore has participated in the culverts replacement design and has responsibility for installing the replacement culverts at Cargill Road and the Terminal Railroad Association. Mr. Fiore has also functioned as the Construction Manager for several years at the Industri-Plex Site in Woburn, MA, managing the installation of a 35 acre, multi-million dollar soil cap and cover and many other project related studies and activities. A detailed resume' will be provided upon request.

Please acknowledge USEPA's approval of these contractors.

Sincerely,



D. M. Light
Project Coordinator
Solutia Inc.

cc: (w/enclosure)

Thomas Martin, Esq. - USEPA
Michael McAteer - USEPA
Candi Morin - IEPA
Linda Tape, Esq. - Thompson Coburn

Gary M. Wantland, P.E.*Vice President/Senior Consulting Engineer***AREAS OF EXPERTISE**

- Geotechnical Engineering/Design
- Construction Quality Assurance
- Construction Management
- Project Management

EDUCATION

University of Houston:
M.S., Civil Engineering,
1979

Florida Institute of
Technology: B.S., Ocean
Engineering, 1976

REGISTRATION

Professional Engineer:
Florida, Georgia, South
Carolina, Tennessee and
Alabama

PROFESSIONAL HISTORY

URS Greiner Woodward
Clyde; Vice President
1998-Present; Woodward-
Clyde International-
Americas; Vice President
and Manager, Engineering
Services, Sr. Consulting
Engineer, 1990-1998; Staff
to Consulting Engineer;
1979-1990

D'Appolonia Consulting
Engineers; Houston,
Texas; Staff Engineer;
1978

REPRESENTATIVE EXPERIENCE

Mr. Wantland has extensive experience in civil and geotechnical engineering. He is a Senior Consulting Engineer with over 20 years experience. He has successfully completed projects for a variety of clients in the chemical, waste disposal, forest products, mining and electric power industries.

Mr. Wantland's experience includes site investigations, characterization of subsurface conditions for both soil and groundwater regimes, engineering analyses, conceptual and detailed design, monitoring of constructed conditions, and management of construction activities. This experience includes development of design criteria, preparation of plans and specifications, generation of construction cost estimates, construction engineering, and project management. Well over one third of his career consists of project experience which required full time assignment to a site for investigations or construction oversight at locations ranging from South America to Wyoming.

Mr. Wantland has performed seepage and stability evaluations for the design, construction or evaluation of zoned earth dams ranging in size from 40 to 50 feet, compacted clay embankments ranging in size from 15 to 20 feet as well as excavated slopes ranging in size from 25 to 200 feet. Selected representative project experience includes the following:

- **Solutia, Pensacola Plant** – Project manager for the design and permit application for a TSCA disposal facility within the limits of an onsite surface impoundment. Our scope of services included the generation of the application and negotiation with the TSCA section of EPA's Region IV. The project was performed within a very tight timeframe and was successful in obtaining the permit.
- **Chemical Waste Management, Lake Charles Facility** – Lead design engineer to Project Manager for the design and construction management of 500,000 cubic yard above and below grade hazardous waste disposal facility. This facility included excavation 30 feet below grade. The facility was designed to resist 20 feet of head from a water-bearing seam located beneath the cell. The design of the containment system included geosynthetic and earth components. This facility was approved for TSCA disposal of PCB containing materials.

Gary M. Wantland, P.E.

Vice President/Senior Consulting Engineer

University of Houston;
Houston, Texas; Research
Assistant; 1976-1977

AFFILIATIONS

Society of Mining
Engineers

Georgia Mining
Association,
Environmental
Subcommittee Member

American Society of Civil
Engineers

National Society of
Professional Engineers

Florida Engineering
Society

Chi Epsilon

- **Chemical Waste Management, Lake Charles Facility** – Lead design engineer for design and permitting support for an 800,000 cubic yard above and below grade disposal facility. The scope of work included negotiations with the Louisiana Department of Environmental Quality who was responsible for design and permit approval. This disposal facility was also approved for TSCA disposal.
- **Chemical Waste Management, Port Arthur Facility** - Project manager for the permit and design of a 750,000 cubic yard above grade disposal facility located over soft clayey deposits. Key design issues at this site included stability of the compacted fill and settlement of the landfill. Services performed included interface with other design team members and preparation of the permit application package.
- **Chemical Waste Management, Lake Charles Facility** – Construction quality assurance services for the construction of compacted clay liners in Trench 5, Cells 4 through 10. Our services included field and laboratory testing and certification that construction was in accordance with the plans and specifications.
- **Gulf Coast Waste Disposal Facility** – Project manager for permit support, detailed design and construction oversight for Cell H, a below grade hazardous waste disposal cell. The scope of services performed included construction quality assurance oversight and documentation of the final design.
- **Gulf Coast Waste Disposal Facility** – Project manager for the design and construction oversight of an above and below grade non-hazardous waste disposal cell. The design included a single composite liner and one leachate collection layer above the liner.
- **Gulf Coast Waste Disposal Facility** - Evaluation and design of repair measures for a slope failure within an active below grade industrial waste landfill facility. Insitu measurements of pore pressure and back calculated values of shear strength were used to design the repairs for this cell. Reconstruction of the slope included the use of dewatering and selective excavation of failed soils to restore the storage capacity of the cell.

Gary M. Wantland, P.E.

Vice President/Senior Consulting Engineer

plans, negotiations with EPA Region IV and FDIIP as well as reports of investigation findings.

- **Florida Power Coordinating Group Hazardous and Solid Waste Study** – Project manager for this assignment to evaluate existing disposal practices for the management of power industry generated waste materials. Our investigation included extensive review of existing disposal practices and a survey of known impacts on the environment. This assignment was successful in achieving the Florida Power Industry's goal of removing the requirement to upgrade disposal practices from the proposed rule.
- **IMC-Agrico Clay Settling Area HL-3** - Design and construction quality assurance of a 13,500 foot long compacted earth dam located in eastern Hillsborough County. This structure impounds approximately 260 acres. Slope stability and seepage evaluations using UTEXAS2 and SEEP/W were performed to evaluate the proposed loading conditions on this structure. Stress path evaluations were also performed to independently evaluate calculated factors of safety.
- **Solutia Sanitary Pond Dike Evaluation, Pensacola Facility** – Project manager for the investigation of the stability of an existing pond dike that had seepage breakout at the toe of the levee. Our services included subsurface drilling and sampling, modeling of seepage and stability of the dike, as well as generation of proposed repair measures to increase the observed factor of safety calculated for the conditions evaluated.
- **Herbert Hoover Dam Evaluation, Okeechobee, Florida** Project manager for the seepage and stability evaluation of 130 miles of levee surrounding Lake Okeechobee in South Florida. Our investigation included review of existing data, back calculations of insitu material properties and modeling of seepage and stability of the levee.
- **GATX Galena Park Facility** - Evaluation and design of repair measures for a 1000 foot wide slope failure adjacent to a high capacity dock located on the Houston Ship Channel. Characterization of the cause of failure included back calculations of shear strength on the failure surface as well as insitu measurements of pore pressure and lateral movement on the failure surface.

Gary M. Wantland, P.E.*Vice President/Senior Consulting Engineer***PUBLICATIONS**

Representative project experience also includes stability and seepage investigations for existing earth and rockfill dams, slopes excavated in highly over-consolidated soils as well as the design of drainage blankets and filters. His experience includes site investigations in central Florida to identify and define the presence of geohazards and evaluate their impact on earth structure performance.

Mr. Wantland's project management experience covers a wide range of environmental and civil works projects. His experience includes practical application of team development, motivation and control skills. This experience includes individual projects ranging from less than \$10,000 to \$750,000 in size. He is well versed in the management of projects using work breakdown structures as well as integrated cost, schedule, and performance methodologies. Mr. Wantland has a long track record of repeat assignments from his existing clients.

Wantland, Gary M. and M.A. Gabr. "Overview of Landfill Design Practice," Hazardous and Industrial Wastes, Proceedings of the Twenty Fourth Mid-Atlantic Industrial Waste Conference. pp. 665-686. July 14-17, 1992.

Wantland, Gary M., W. Gardner, K. Kastman, R. Junkrowski, J. Seymour. "Technical Monograph on Liner and Cover Systems, Woodward-Clyde Consultants Professional Development Program, October, 1990.

Wantland, Gary M.; "Surface Impoundments" presented at Woodward-Clyde Consultants RCRA/SARA Seminar, 1988.

Wantland, Gary M.; "Test Fill Program", Texas Chemical Council Test Fill Subcommittee Symposium, April, 1988.

Wantland, Gary M.; "Landfill Design and the Minimum Technology Guidance," Proceedings of the Conference on Southwestern Groundwater Issues, National Water Well Association, Tempe, Arizona; October 20-22, 1986; pp. 319-331.

Wantland, Gary M. and Robert Junkrowski, "Design and Construction of a Double-Lined Hazardous Waste Facility," Proceedings, Central Symposium on Case Histories, Woodward-Clyde Consultants Professional Development

Specialty Conference; St. Louis, Missouri, October 10-11, 1986.

Gary M. Wantland, P.E.*Vice President/Senior Consulting Engineer*

Wantland, Gary M.; W. Walls; S. Aldridge and L.A. Wolfskill; "Lessons Learned Implementing the Minimum Technology Guidance for Landfills;" Proceedings of the 1986 Specialty Conference on Environmental Engineering; American Society of Civil Engineers; Cincinnati, Ohio; July 8-10, 1986, pp. 394-400.

Wantland, Gary M.; M. O'Neill; L. Reese and E. Kalajian; "Pipeline Lateral Stability in Soft Clay;" Journal of Petroleum Technology (SEP 8528); January 1982; pp. 217-220.

Wantland, Gary M.; M. O'Neill; L. Reese and E. Kalajian; "Lateral Stability of Pipelines in Clay;" Offshore Technology Conference, Paper No. OTC 3477; Houston, Texas; May 1979.